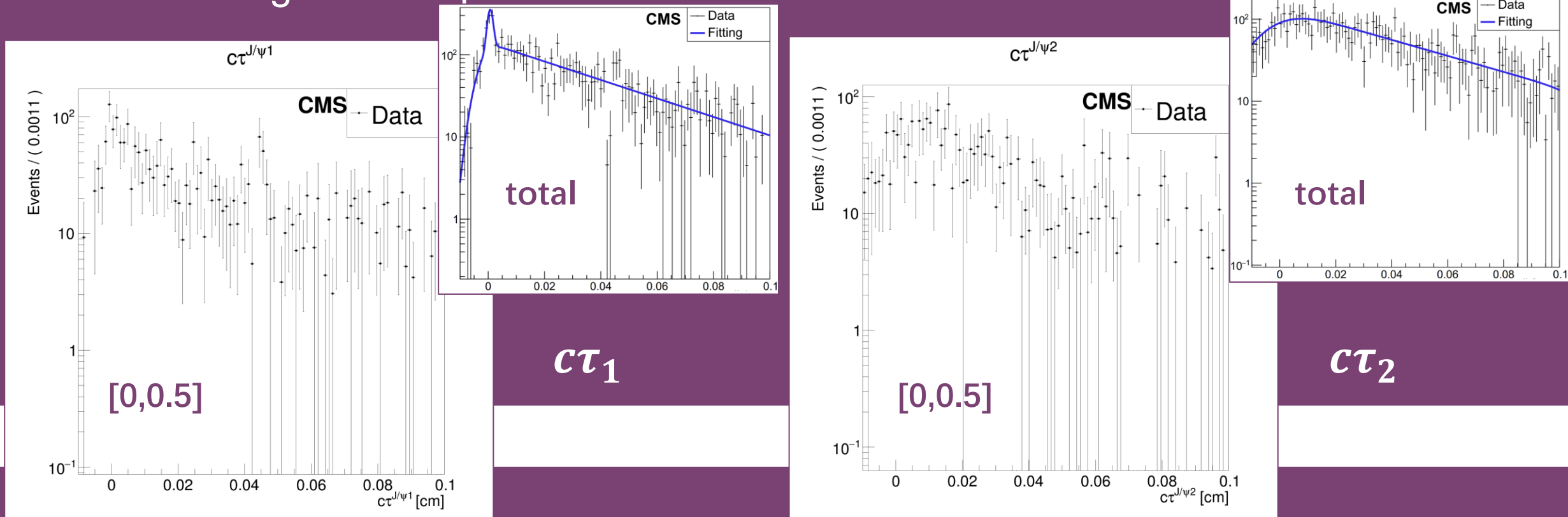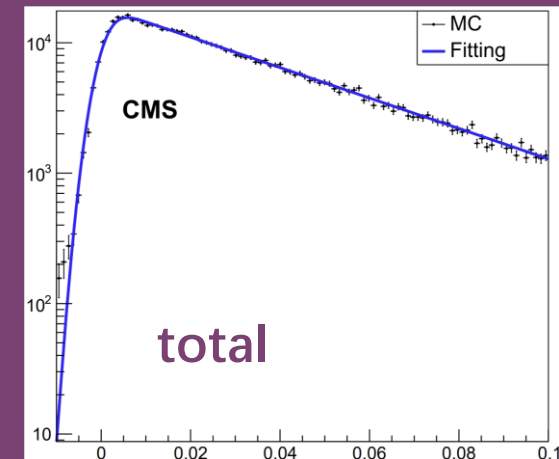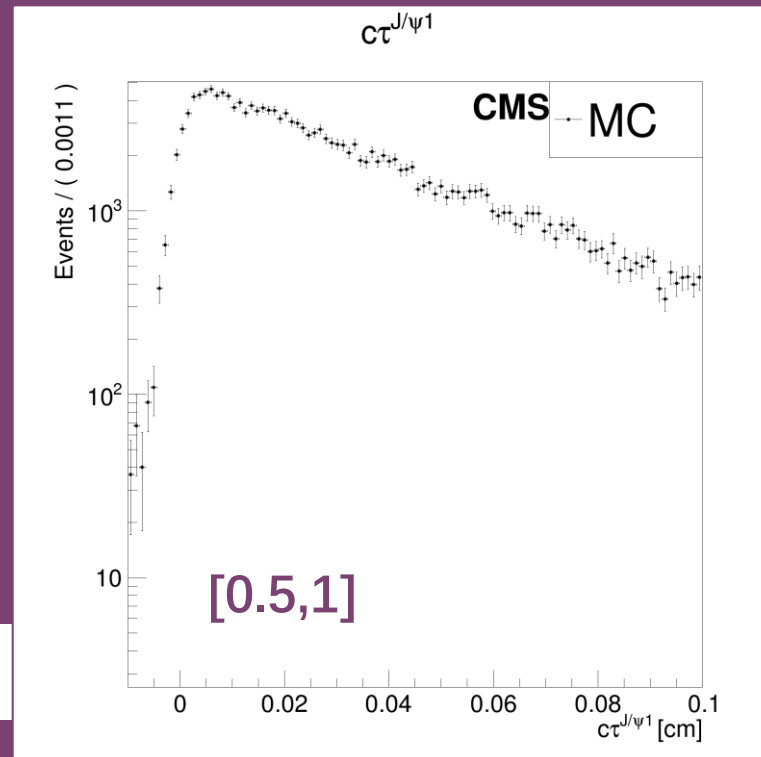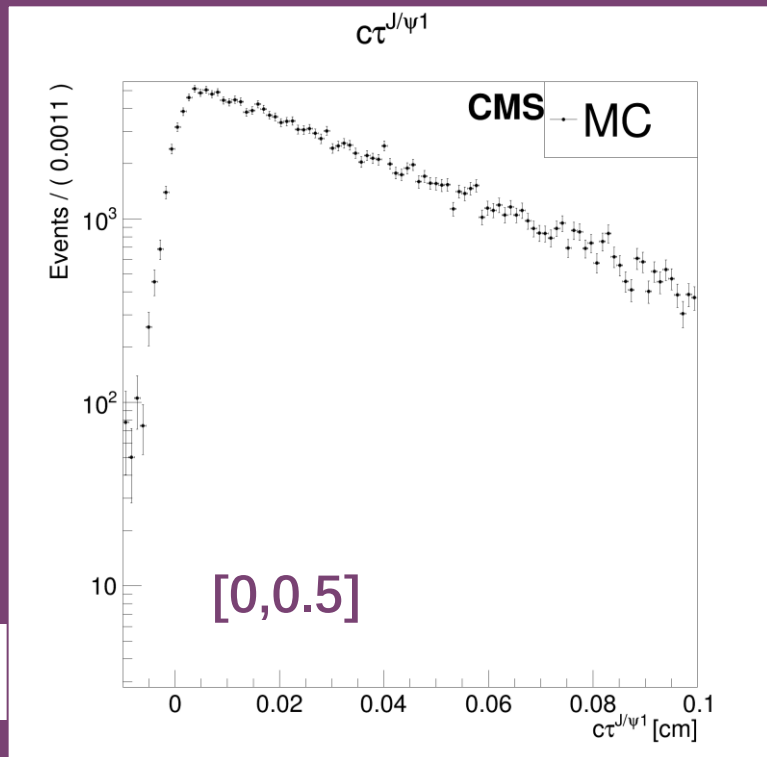# Difference of samples in different bins

- We checked the shape of samples (MC/sideband) in different bins
- For different Δy bins
  - No dramatic difference can be noticed for data side band
  - Although the shapes are blurred

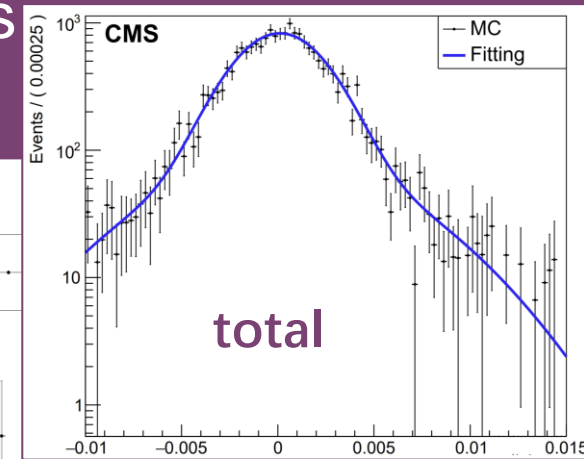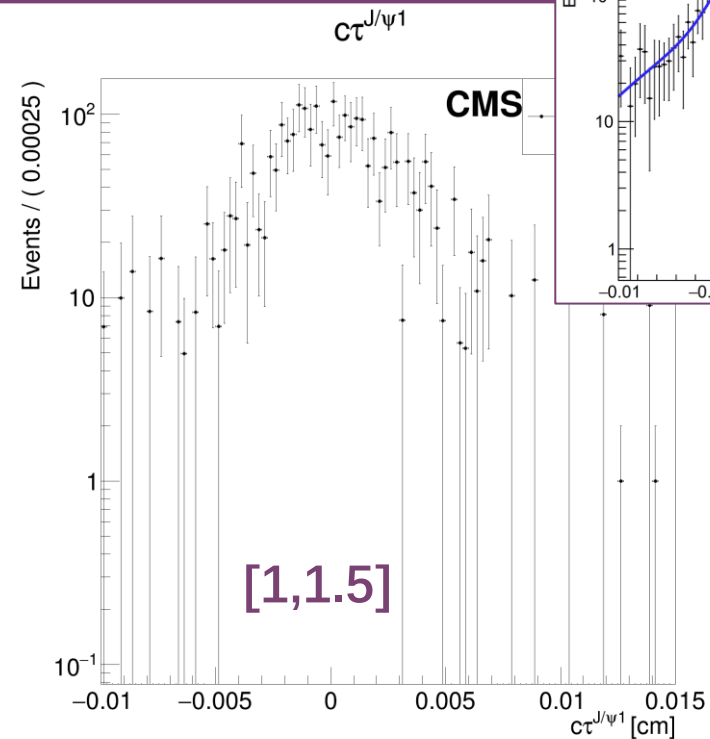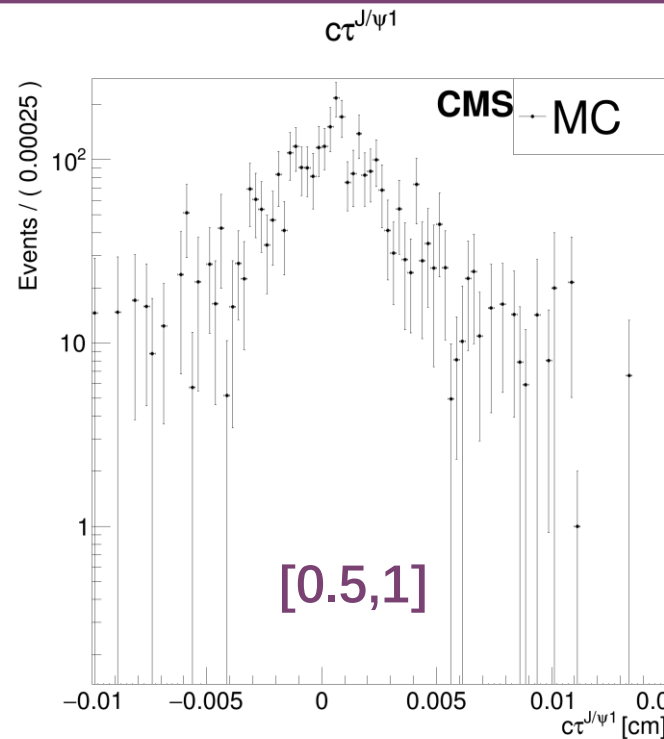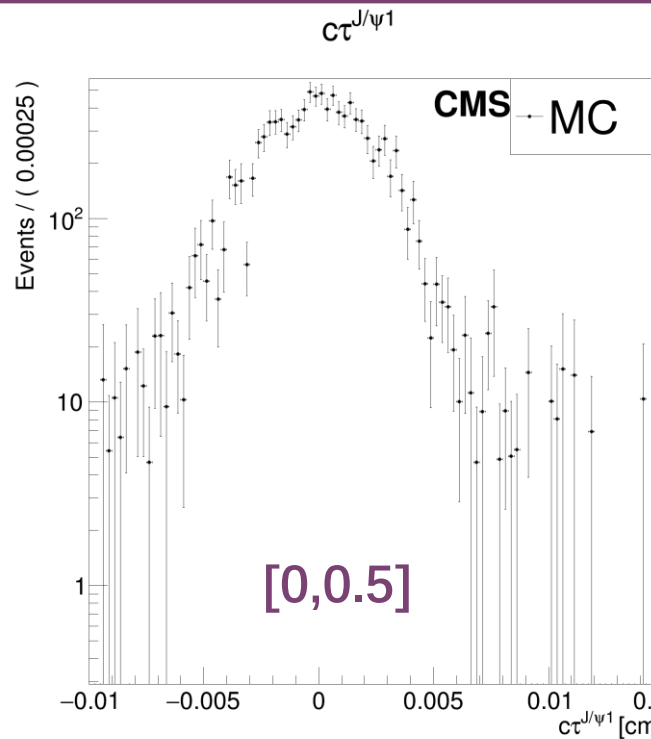# Difference of samples in different bins

- For different Δy bins
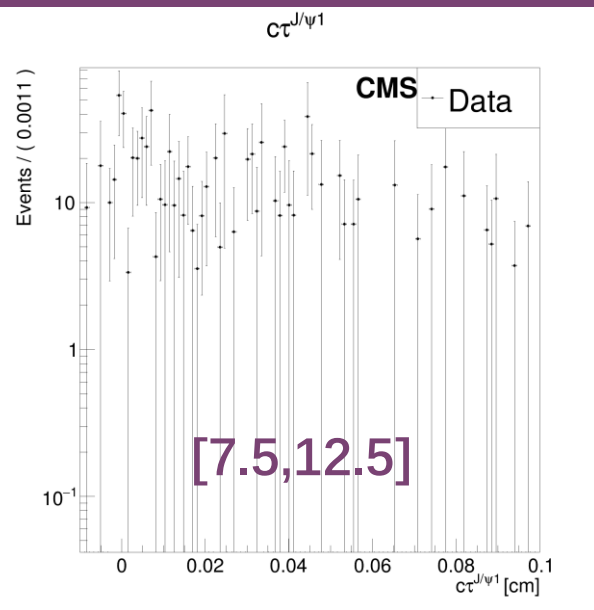 - Almost no difference can be noticed for non-prompt MC

Difference of samples in different bins

- For different Δy bins
  - Difference in the shape for prompt MC sample can be found
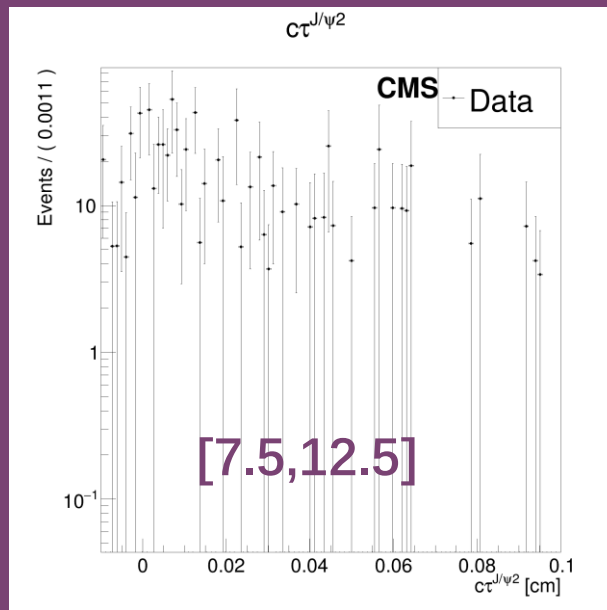 - May come from different SPS/DPS fraction in different bins
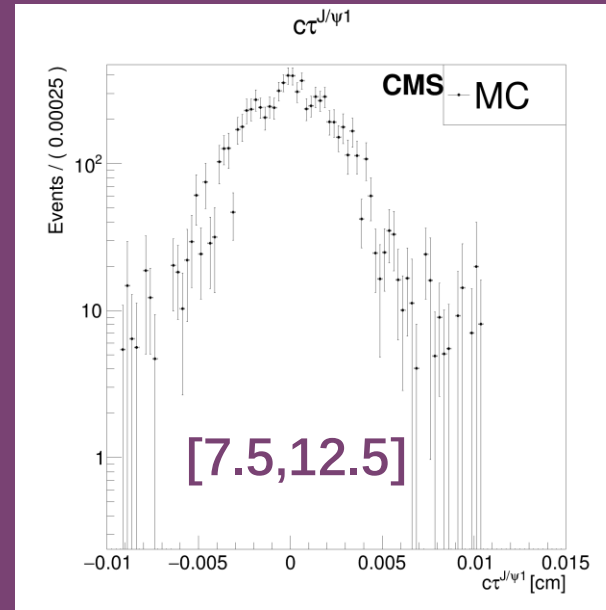
Difference of samples in different bins

- For different $M(J/\psi J/\psi)$ bins
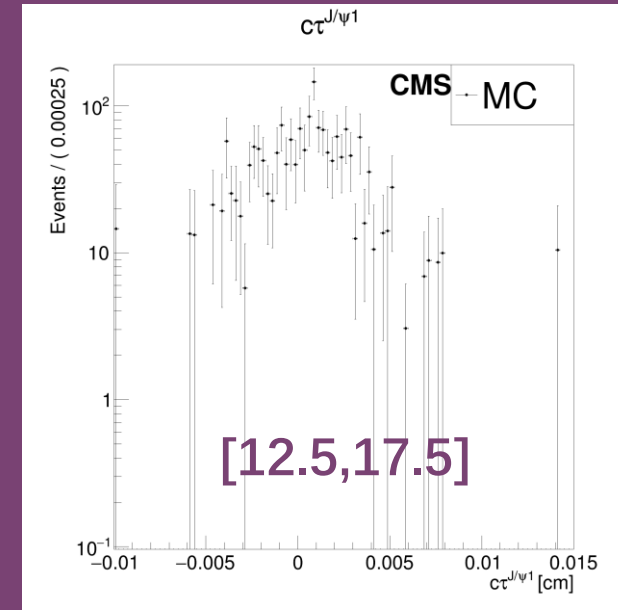 - Similar for prompt MC and side band sample

Side band $c\tau_1$ **Side band** $c\tau_2$ **Prompt MC** $c\tau_1$

Difference of samples in different bins

- For different $M(J/\psi J/\psi)$ bins
  - Almost nothing for non-prompt MC sample in the first two bins

total

[7.5,12.5]

[12.5,17.5]

[17.5,22.5]